

CLAIMS

1. A protein comprising an amino acid sequence of SEQ ID NO: 2 in the sequence listing, or a variation functionally equivalent thereto, or a fragment of said protein or said variation.
2. A gene encoding said protein or said variation functionally equivalent thereto according to claim 1.
3. The gene according to claim 2, consisting of the 37th to 1479th bases in a base sequence of SEQ ID NO: 1 in the sequence listing.
4. A plasmid comprising said gene according to claim 2 or 3.
5. A transformant comprising said plasmid according to claim 4.
6. An antibody or a fragment thereof, characterized by being reactive specifically to said protein or said variation functionally equivalent thereto according to claim 1.
7. A method for detecting a bacterial infection, characterized by analyzing a protein comprising an amino acid sequence of SEQ ID NO: 2 in the sequence listing or a variation functionally equivalent thereto, or an mRNA thereof in a sample to be detected.
8. The method according to claim 7, wherein the bacterial infection is septicemia.
9. A polynucleotide capable of specifically hybridizing to an mRNA consisting of an base sequence of SEQ ID NO: 1 in the sequence listing.
10. A protein comprising an amino acid sequence of SEQ ID NO: 4 in the sequence listing, or a variation functionally equivalent thereto, or a fragment of said protein or said variation.
11. A gene encoding said protein or said variation

- functionally equivalent thereto according to claim 10.
12. The gene according to claim 11, consisting of the 126th to 1295th bases in a base sequence of SEQ ID NO: 3 in the sequence listing.
13. A plasmid comprising said gene according to claim 11 or 12.
14. A transformant comprising said plasmid according to claim 13.
15. An antibody or a fragment thereof, characterized by being reactive specifically to said protein or said variation functionally equivalent thereto according to claim 10.
16. A method for detecting a bacterial infection, characterized by analyzing a protein comprising an amino acid sequence of SEQ ID NO: 4 in the sequence listing or a variation functionally equivalent thereto, or an mRNA thereof in a sample to be detected.
17. The method according to claim 16, wherein the bacterial infection is septicemia.
18. A polynucleotide capable of specifically hybridizing to an mRNA consisting of an base sequence of SEQ ID NO: 3 in the sequence listing.
19. A protein comprising an amino acid sequence of SEQ ID NO: 6 in the sequence listing, or a variation functionally equivalent thereto, or a fragment of said protein or said variation.
20. A gene encoding said protein or said variation functionally equivalent thereto according to claim 19.
21. The gene according to claim 20, consisting of the 56th to 304th bases in a base sequence of SEQ ID NO: 5 in the sequence listing.
22. A plasmid comprising said gene according to claim 20 or

21.

23. A transformant comprising said plasmid according to claim 22.

24. An antibody or a fragment thereof, characterized by being reactive specifically to said protein or said variation functionally equivalent thereto according to claim 19.

25. A method for detecting a bacterial infection, characterized by analyzing a protein comprising an amino acid sequence of SEQ ID NO: 6 in the sequence listing or a variation functionally equivalent thereto, or an mRNA thereof in a sample to be detected.

26. The method according to claim 25, wherein the bacterial infection is septicemia.

27. A polynucleotide capable of specifically hybridizing to an mRNA consisting of an base sequence of SEQ ID NO: 5 in the sequence listing.